

Date: Sun, 5 Jun 94 23:02:14 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #633  
To: Info-Hams

Info-Hams Digest                      Sun, 5 Jun 94                      Volume 94 : Issue 633

Today's Topics:

Amateur Radio Newsline #877 03 Jun 1994  
ARLB046 SM election results  
Commercial Radio License Exams \*\* Cambridge MA \*\* Sat 18 June 1994  
SSB Filters

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Sun, 5 Jun 1994 20:00:41 MDT  
From: ihnp4.ucsd.edu!swrinde!emory!europa.eng.gtefsd.com!newsxfer.itd.umich.edu!  
nnntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu  
Subject: Amateur Radio Newsline #877 03 Jun 1994  
To: info-hams@ucsd.edu

The electronic publication of the Amateur Radio Newsline is distributed  
with the permission of Bill Pasternak, WA6ITF, President and Editor of  
Newsline. The text version is edited from the original scripts and  
transcribed from the audio reports by Dale Cary, WD0AK0, and is first  
published in The Radio & Electronics Round Table on the Genie Online  
System.

If you have any comment, suggestion, or news item you would like to submit,  
send them via E-Mail to 3241437@mcimail.com or B.PASTERNAK@genie.geis.com.  
You can contact Newsline at +1 805-296-7180. It is a combination answering  
and FAX machine, if you have a FAX to send, wait for the voice prompt and  
press your fax-send button.

All other information and disclaimers are in the text header below.

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NEWSLINE RADIO - CBBS EDITION #127 - POSTED 06/05/94

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The following is late news about Amateur Radio for Radio  
Amateurs as prepared from NEWSLINE RADIO scripts by the staff of  
the AMATEUR RADIO NEWSLINE, INC. -- formerly the WESTLINK RADIO  
NETWORK. For current information updates, please call

#### Audio Version of Newsline

=====

Los Angeles.....	(213) 462-0008
Los Angeles (Instant Update Line).....	(805) 296-2407
Seattle.....	(206) 368-3969
Seattle.....	(206) 281-8455
Tacoma.....	(206) 927-7373
Louisville.....	(502) 894-8559
Dayton.....	(513) 275-9991
Chicago.....	(708) 289-0423
New York City.....	(718) 353-2801
Melbourne, FL.....	(407) 259-4479

#### Electronic Hardcopy Version of Newsline

=====

GEnie (RTC Bulletin Board).....	m345;1
GEnie (File Library).....	m345;3
Dallas Remote Imaging BBS (DRIG).....	(214) 492-7573
In bulletin number 36	
The Midwest Connection BBS.....	(701) 239-2440
In bulletin number 6 of the ham radio conference	
Delphi.....	
In the ham radio conference	

Internet.....

In the rec.radio.info newsgroup

FTP: oak.oakland.edu, archive: pub/hamradio/docs/newsline

Fidonet, RIME, Intellec, I-Link.....

In the Ham Radio conferences on those networks

For the latest breaking info call the Instant Update Line listed above. To provide information please call (805) 296-7180. This line answers automatically and will accept up to 30 minutes of material.

Check with your local amateur radio club to see if NEWSLINE can be heard weekly on the air in your area.

Articles may be reproduced if printed in their entirety and credit is given to AMATEUR RADIO NEWSLINE as being the source.

For further information about the AMATEUR RADIO NEWSLINE, please write to us with an SASE at P.O. Box 463, Pasadena, CA 91102.

Thank You  
NEWSLINE

(\*\*\*\*\*)

Some of the hams of NEWSLINE RADIO...

WA6ITF WB6MQV WB6FDF K6DUE W6RCL N6AHU N6AWE N6TCQ K6PGX N6PNY  
KU8R N8DTN W9JUV KC9RP K9XI KB5KCH KC5UD KC0HF G8AUU WD0AKO DJ0QN  
and many others in the United States and around the globe!!!

(\*\*\*\*\*)

[877]

(\* \* \* \* C L O S E D C I R C U I T A D V I S O R Y \* \* \* \*)

(\* \*  
(\* The following is a closed circuit advisory and is NOT \*  
(\* for transmission over amateur radio. As you heard last \*  
(\* week Newsline Support Fund administrator Norm Chalfin, \*  
(\* K6PGX says that the funds needed to keep Newsline in \*  
(\* operation are so low that Newsline's operation could be \*  
(\* terminated at any time without notice. According to Norm, \*  
(\* at times it costs up to \$1000 a month to pay the \*  
(\* tele-communications and equipment supply bills. Norm says \*  
(\* that we have to raise at least seven thousand dollars just \*  
(\* to carry us through to the end of 1994. \*)

(\* For those of you unaware, Newsline pays the cost of \*

(\* three telephones including the one used for news gathering. \*

(\* We also pay for several electronic news and information \*

(\* services, we pay for electronic mail, for raw tape stock \*

(\* and the cost of repairing and updating our production \*

(\* facilities. \*

(\* Right now, Newsline has virtually nothing in its \*

(\* separate support fund. What little there is will not even \*

(\* cover the bills for May. Several of the staff including \*

(\* our producer Bill Pasternak, WA6ITF will be contributing to \*

(\* make up the current shortfall, but they cannot be asked to \*

(\* do it month after month. \*

(\* It's this simple. If there is not enough interest in \*

(\* the ham radio community to support this service then its \*

(\* operation will terminate when our communications services \*

(\* are cut off. \*

(\* If you want it to continue, then please send any support \*

(\* that you can, as soon as you can, to the Newsline Support \*

(\* Fund, Post Office Box 463, Pasadena, CA 91102. If you \*

(\* missed the address it will be repeated at the end of the \*

(\* bulletin. \*

(\* Again, and as always, we thank you for your ongoing \*

(\* interest and support. And that ends the closed circuit \*

(\* advisory with Newsline report number 877 for release on \*

(\* Friday, June 3 1994 to follow. \*

(\* \*

(\* \* \* \* \*

The following is a QST

The United States Supreme Court rules that complaints about indecent broadcasts can't be pursued past the FCC, AMSAT says no to the NTIA and a ham is knighted. Find out why on Newsline report number 877 coming your way right now!

(\*\*\*\*\*

#### SUPREME COURT SAYS NO TO LISTENER COMPLAINTS

The Supreme Court has let stand a ruling that bars members of the public who are upset over what they feel are legally indecent broadcasts from asking federal courts to revive complaints that the FCC has dismissed. This by refusing, without comment, to review a ruling that says listeners generally don't have the proper legal standing to pursue such complaints beyond the Federal Communications Commission. The decision not to act could make it very difficult to take potty-mouth hams off the air.

The case involves a complaint filed before the FCC by Peter Branton of Chattanooga, Tennessee. Branton filed his complaint

after listening to a National Public Radio news program on radio station WSMC-FM the evening of Feb. 28, 1989. He claimed that the program contained a report on reputed New York mobster John Gotti, and that it included a tape-recorded telephone conversation between Gotti and an associate that was used as trial evidence.

Branton says that he was offended by the language. He filed a complaint with the FCC's Mass Media Bureau, requesting commission sanctions against NPR. But the commission refused his demand. It ruled that the report was part of a bona fide news story being reported nationwide. So the Chattanooga resident then sought help from the U.S. Circuit Court of Appeals for the District of Columbia but that three-judge panel of that court dismissed Branton's appeal last June. In fact, that court went so far as to say that Branton actually lacked the legal standing to file it.

Branton then went to the United States Supreme Court. Ironically, his appeal was supported in a friend-of-the-court brief submitted by two advocacy groups, People for the American Way and the Washington Area Citizens Coalition Interested in Viewers' Constitutional Rights. The brief was an unusual one, because the advocacy groups said they oppose Branton "on the merits of his indecency complaint."

But lawyers for NPR and other broadcast organizations that intervened in the case urged the justices to reject Branton's appeal. This is exactly what they did in turning away the Branton appeal.

What does this mean for ham radio? The FCC does not always act on complaints about the operations of potty mouth hams. In the past, if the problem was truly bad enough the Amateur Radio community would seek alternatives including taking the matter to other government agencies or approaching congressional leaders for intervention to the FCC. That road may no longer be open since the Supreme Court feels that the average person is not legally astute in determining what is and is not legally indecent.

(\*\*\*\*\*

#### AMSAT COMMENTS TO NTIA

In comments filed with the National Telecommunications and Information Administration in response to the agency's Preliminary Spectrum Reallocation Report, AMSAT-North America has asked for wider amateur and amateur-satellite service bands at 13 cm. The NTIA's Preliminary Report, published in February, proposed to cut U.S. amateur 13 cm allocations in half, from the present 2300-2310 and 2390-2450 MHz to 2400-2402 and 2417-2450 MHz.

AMSAT has instead proposed a primary allocation of 2400-2410 MHz to be shared by the amateur and amateur-satellite services, in addition to the 2417-2450 MHz proposed by NTIA. In support of this request, AMSAT cited the likelihood of greatly increased

demand for amateur satellite operations in the 13 cm band in coming years, far more than can be accommodated within 2400-2402 MHz. It also noted the unsuitability of 2417-2450 MHz for amateur satellite downlinks because of interference from such devices as microwave ovens and the need to coordinate amateur-satellite allocations internationally so that they are available on a global basis.

AMSAT has also proposed that a narrow band of 1-2 MHz, somewhere between 2300 and 2400 MHz. This to be allocated to the amateur service to accommodate the experimental weak-signal tropo and EME work now carried out around 2304 MHz. Under NTIA's proposal, this would be displaced.

The NTIA's Preliminary Spectrum Reallocation Report was prepared pursuant to Title VI of the Omnibus Budget Reconciliation Act of 1993. The same act also requires that comments from interested parties such as AMSAT be reviewed by FCC and NTIA before any final decision is taken.

(\*\*\*\*\*

#### FCC DENIES MORE RULES CHANGE REQUESTS

The FCC has denied two petitions for reconsideration that sought a broader definition of permissible communications by amateurs. The petitions by David Popkin, W2CC, and Rolland D. Cummings, WA0EDA, sought expansion of FCC rules changes that went into effect in September 1993, in Personal Radio Docket 92-136. The two petitions sought permission for amateurs to retransmit certain US government broadcasts, such as time signals. Popkin's petition also sought a wording change to the new rules, from 'classroom instruction' to 'instructional activity.'

These new rules which were the result of an ambitious rewrite of Section 97.113. These changes gave amateurs greater flexibility in providing noncommercial communications for public events and permitted paid teachers to use Amateur Radio in their classrooms. They also allow such personal communications such as making appointments and ordering pizza over an autopatch.

In denying the requests the FCC said that the ideas expressed in the petitions already had been aired and considered during the public comment period for PR Docket 92-136.

(\*\*\*\*\*

#### THE REASON WHY

The FCC is with more and more regularity turning down what it seems to view as pointless and mundane technicalities in rules changes. It says that a goodly number are filed for no purpose other than trying to solve a dispute that has arisen between one or two hams. This the Commission says is something that the FCC

is not about to do. At the recent Dayton Hamvention the FCC's John B. Johnston, W3BE explained why minor rules changes are becoming harder:

"One approach that we try very hard to use is to avoid what we call 'How to' rules. These are rules that specify just how you are to do something. And you ask for a lot of 'How to' rules. But they seem to always make for problems sooner or later. When you have a 'How to' rule your probably trying to solve a problem with an existing system. Sooner or later that system is going to become passe. But rules seem to have a habit of taking on a life of their own and get in the way of new systems." John B. Johnston, W3BE.

As far as mundane and non essential changes are concerned, the FCC is not going to get involved. They say its a waste your time and theirs. And that more than explains why the Popkin and Cummings rule change requests were unceremoniously turned away.

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#### NEWSLINE FINANCIAL CRISIS UPDATE

The latest on the financial crisis facing Newsline we reported last week. The good news is that you are hearing us this week. All we can say is that we hope we are able to be on next week as well. Call back in 7 days and we will all know more by then.

(\*\*\*\*\*

#### AMATEUR RADIO TO ASSIST OAKLAND CA DURING EMERGENCIES

The City of Oakland California and the Oakland Fire Department have entered into a partnership with the Oakland Amateur Radio Emergency Services Organization. The Oakland City Council has voted a resolution which directs the City Manager to enter into a letter of understanding with the Oakland Amateur Radio Emergency Service and designate them as a Radio Amateur Emergency Civil Emergency Service during any locally declared disaster.

Members of Oakland ARES will respond to the City's Emergency operation Center following any disaster or emergency which may threaten life and property in Oakland. They will then disburse to assist with the communication needs of emergency operations throughout the city.

The Oakland City Council says that Amateur Radio Operators have always been recognized by Oakland as being an effective means of providing critical back up communication links during emergencies. They note that Amateur Radio Operators have been on the scene of virtually every recent major disaster whether in the United States or abroad, in some cases they provided the only

communication with the outside world.

(\*\*\*\*\*

#### Long Island NY Tower Case Update

Mark Nadell, NK2T says that he has received a favorable decision by the New York State Supreme Court in his antenna battle with the Town of Hempstead Long Island, but the victory will probably be short lived. This is because Hempstead has filed a motion to re-argue the case. The motion was filed on the May 10th and that forced NK2T to file a cross motion to re-argue his side.

Nadell believes that Hempstead will probably get a clarification of the original finding. This was a court decision that annulled the towns order for him to take down his tower and antenna.

If a clarification is granted then Hempstead will almost assuredly file a formal appeal. As such, the case could go on for years, possibly ending up in the United States Supreme Court if both sides decide to wage the legal battle to its ultimate end.

(\*\*\*\*\*

#### 20,000 REPEATERS

On a brighter note, can you believe that there are now over twenty thousand FM coordinated repeaters, packet bulletin boards and propagation beacons on the air in the United States? Well those are the numbers contained in the new edition of the ARRL Repeater Directory that made its debut at the Dayton HamVention four weeks ago.

1994-95 edition of the ARRL directory has been reorganized for easier use on the run. The Leagues says that this makes it easier to find the listings of the coordinated and registered FM relay devices nationwide. The new directory does not contain an estimated 5000 to 10,000 more uncoordinated repeaters and unlisted packet BBS that are also believed to exist.

(\*\*\*\*\*

#### FOUR HAMS JOIN CQ HALL OF FAME

CQ magazine has inducted four amateurs into its halls of fame. Joining the CQ Contest Hall of Fame is John Thompson, W1BIH also known as PJ9JT; Atilano de Oms, PY5EG; and the late Herb Becker, W6QD.

Thompson, 79 and licensed since 1930, is well-known as both a DXer and contesteer. For more than 20 years he has operated from his winter home on Curacao in the Netherlands Antilles.

De Oms is credited with encouraging contest operations all over South America, is an active contesteer, and has one of the



most potent stations on the continent. He also is at the top of both the Mixed and Phone DXCC Honor Rolls.

Herb Becker, W6QD, was one of the handful of DX and contest operators who conceived, in the late 1940s, the idea of the CQ Worldwide DX Contests. The basic rules he helped write more than 40 years ago have remained essentially unchanged.

Charlie Mellen, W1FH, is this years loan entry into the CQ DX Hall of Fame. A DXCC member before World War 2, he started over in 1945, climbed to the top of the DXCC ladder, and stayed there through most of his career.

The ceremony inducting the four took place at the recent Hamvention in Dayton, Ohio.

(\*\*\*\*\*

#### DX - SAINT PAUL ISLAND

In DX, word that Saint Paul Island with operators KW2P, WA4DAN, AA4VK, N0TG and possibly W0RJU plan to be active for the first week of July. This is the same group operated from KP1 and KP5 in 1992 and 1993. Landing permission and transportation for Saint Paul has already been received.

(\*\*\*\*\*

#### SCOTTISH DISTRESS

Did you hear a strange signal on 14.001 MHz which sounded like a distress signal? GM3YEH did. He says that It appeared in Scotland on the 2nd of April around 14:00 UTC.

The Scottish Coast Guard Rescue service in Greenock were alerted. In short order they reported back that it is not a distress signal but faulty equipment being tested in Florida. They would not elaborate further or indicate who the transmitter belonged to. But they did indicated that it could take a while for engineers to get the signal off the air.

(\*\*\*\*\*

#### PLUMBING

Our heartiest congratulations to Andy Watts, G4VIW, on being named as a "Member of the British Empire" in the 1994 New Years Honors List.

We have been told that being named as a Member of the British Empire is akin to knighthood. Andy, who is Chief Executive and Secretary of the Institute of Plumbing in Hornchurch Essex was in effect knighted for his -- and we quote-- his "Services to Plumbing."

And no this is not a joke. The honor is for real. The British do things in a slightly more formal way then we do here in

their former colonies.

(\*\*\*\*\*

And for this week, that's all from the Amateur Radio Newsline. You can write to us at Post Office Box 463 in Pasadena, CA 91102. Next week tune in for coverage of the Westlink Report Young Ham of the Year Award presentation in Seaside Oregon.

(\* \* \* Newslite Copyright 1994 all rights are reserved. \* \* \*

Side Note from Steve: It is not unusual for a plumber to be made a Member Of The British Empire. The first plumber was appointed by Queen Victoria to put in the sewers and water supply system in London. His company also manufactured and installed most of the bathrooms a hundred years ago. During World War I, American dough-boys stationed or passing through London were forbidden to openly gamble. However, that didn't stop them from shooting dice in a place where they would not be interrupted, the "loo". The royal plumber's name was Thomas Crapper. And so now you know how a game of dice, and something else we are all familiar with, became known as "craps". -Steve

[illegible]

Date: Thu, 2 Jun 1994 13:20:00 -0600  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!agate!library.ucla.edu!psgrain!  
nnntp.cs.ubc.ca!alberta!ve6mgs!usenet@network.ucsd.edu  
Subject: ARLB046 SM election results  
To: info-hams@ucsd.edu

SB QST @ ARL \$ARLB046  
ARLB046 SM election results

ZCZC AG11  
QST de W1AW  
ARRL Bulletin 46 ARLB046

Date: 6 Jun 1994 04:21:52 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!bloom-beacon.mit.edu!senator-  
bedfellow.mit.edu!w1gsl@network.ucsd.edu  
Subject: Commercial Radio License Exams \*\* Cambridge MA \*\* Sat 18 June 1994  
To: info-hams@ucsd.edu

\*\* MROP, GROL and GMDSS exams in Cambridge MA \*\* Sat. June 18th 1994 \*\*

\*\* LAST CHANCE BEFORE THE NEW REGULATORY FEE IS ADDED IN JULY

The MIT Radio Exam Team will conduct exams for the General Radiotelephone Operators License, the Marine Radio Operators Permit and the Global Marine Distress and Safety Systems Licenses. The exams will be held at 10AM on Saturday June 18th in Cambridge MA at 77 Mass Ave in MIT Room 1-150.

A regular schedule of exams is planned for Cambridge MA on the second Saturday of odd numbered months. For more information call Nick at 617 253 3776 (9-5).

There is a \$35 examination fee. Bring the \*\* original \*\* and a copy of any commercial license or proof of passing certificates you want to claim credit for. Also bring 2 forms of picture ID, a black pen and a pencil.

\*\* If you are thinking of getting a commercial licence now may be the time. The FCC is talking about imposing an additional "regulatory fee" after July 1. This will probably be \$105 - ouch- for GROL applicants. Since the GROL is a lifetime license getting it now avoids the fee.

This exam session is timed to allow all the paper work to reach the FCC before July to avoid the proposed "Regulatory fee"

Copies of the question pools are available from the Government Printing office or from W5YI at 1 800 669 9594. This is probably the best study guide available for the moment. A few copies are available for pickup in Cambridge.

The General Radio Telephone Operators License is required to service transmitters in the aviation, maritime and international radio services. A Maritime Radio Operators Permit is required to operate radiotelephone stations aboard large ships and certain aviation and coast stations. Large ocean going ships will be required to carry Global Maritime Distress and Safety Systems

licensees. A GMDSS Maintainer License is required to service GMDSS equipment.

The Global Maritime Distress and Safety Systems Operator (GMDSS-0) licenses exam question pool is scheduled for release shortly. Exams for this license will be offered if the necessary material reaches us in time.

At a later date exams will be available for the Commercial Radio Telegraph operators licenses. Amateur Extra Class operators may be particularly interested in obtaining a commercial telegraph license as they will receive credit for the 20 WPM 2nd class code exam.

The MIT Radio Exam Team operates under the auspices of the National Radio Examiners COLEM, part of the W5YI group.

Newsgroups: rec.radio.swap  
Subject: Com

Summary:  
Expires:  
Sender:  
Followup-To:  
Distribution: na  
Organization: Massachusetts Institute of Technology  
Keywords:

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Date: 6 Jun 94 05:03:45 GMT  
From: news.delphi.com!BIX.com!jdow@uunet.uu.net  
Subject: SSB Filters  
To: info-hams@ucsd.edu

dstock@hpbqmoqa.sqf.hp.com (David Stockton) writes:

>Elendir (elendir@enst.fr) wrote:

>: I know little about helicoidal filters, so I d be pretty interested in knowing  
>: more.

> Connaissez-vous "Handbook of filter synthesis" par Anatol I Zverev,  
>John Wiley and sons inc New York 1967 ISBN 0 471 98680 1 ?  
>chapitre 9 "Helical filters" . c'est le tome definitif pour le dessein  
>mathematique des filtres.

Zverev is an EXCELLENT book. I cannot recommend it highly enough.

> Also, I d like to know what frequency swing you can expect from a Xtal  
>: oscillator modulated by a varicap diode.

> (sorry, my French isn't adequate for this part..)

> It depends a lot on the frequency, the circuit, and production  
>tolerances. With care a 200 ppm (parts per million) tuning range can be  
>reasonably reliably achieved for a favourable frequency and circuit.

Um, 200ppm pretty much wants more than a simple varicap to make it happy. Even with carefully selected (and spurious de-Q-ed inductors) past 200ppm it is remarkably easy to get into odd spurious oscillations due to crystal spurs. As you mention, I'd never try pulling an overtone crystal farther than its base frequency tolerance at best. (I learned that one the hard way. Just barely made that one work.)

> David GM4ZNX

{^\_^} jdown@bix.com

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Date: 5 Jun 1994 21:45:18 -0700  
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!netline-fddi.jpl.nasa.gov!nntp-server.caltech.edu!news.claremont.edu!kaiwan.com!not-for-mail@network.ucsd.edu  
To: info-hams@ucsd.edu

References <2sn1dc\$5hf@sugar.NeoSoft.COM>, <gregCqts8v.45J@netcom.com>,  
<2so39e\$t29@sugar.NeoSoft.COM>  
Subject : Re: 440 in So. Cal.

Jim Reese (jreese@sugar.NeoSoft.COM) wrote:

> By "accomodate everyone", I meant that the coordinating body must accomodate  
> equally both trustees of open repeaters and trustees of closed ones. Its job  
> is to minimize interference, not make judgement calls as to who is "more  
> worthy" of a frequency.

Hi Jim,

Don't coordinators do this anyway? If "Applicant A" applied for a pair 2 months before "Applicant B", yet the second applicant's station location provides better spectrum use and no interference, who should the coordinator give the available frequencies to?

I also think that if "Scrubba" made it a policy that 75% of all repeater coordinations were to be for "open" repeaters, as long as that policy was equally enforced, they'd be safe.

Yes, they might get sued. You might get sued. You might sue me. The real threat of getting sued should not drive decisions. The threat of losing should.

--  
\_\_\_\_[ Robb Topolski ]\_\_\_[ San Clemente, CA ]\_\_\_[ topolski@kaiwan.com ]\_\_\_\_

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Date: (null)  
From: (null)  
SB QST ARL ARLB046  
ARLB046 SM ELECTION RESULTS

Ballots have been counted in the Section Manager election for Vermont. The term of office begins July 1, 1994.

The results are:

Justin Barton, WA1ITZ, 213  
Mitch Stern, WB2JSJ, 139  
Barton was declared elected.

Elections in seven other sections were not contested. The following were declared elected:

In the Alaska Section  
Larry Flanagan, NL7XG

In the Illinois Section  
Bruce Boston, KD9UL

In the Indiana Section  
Peggy Coulter, W9JUJ

In the Maine Section  
Michelle Mann, WM1C

In the Northern Florida Section  
Rudy Hubbard, WA4PUP

In the Oregon Section  
Randy Stimson, KZ7T

In the Wisconsin Section  
Richard Regent, K9GDF

NNNN  
/EX

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End of Info-Hams Digest V94 #633  
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